

(FILE 'USPAT' ENTERED AT 16:59:44 ON 16 OCT 1997)

L1 892 S OBJECT# (5A) TRIGGER?

L2 592 S (DUPLICAT? OR REPLICAT?) (P) DATABASE

L3 0 S L1(P)L2 L4 9 S L1 AND L2

## => d 14 1-9

- 1. 5,598,566, Jan. 28, 1997, Networked facilities management system having a node configured with distributed load management software to manipulate loads controlled by other nodes; Gregory A. Pascucci, et al., 395/750.06; 364/221.9, 222, 228, 229, 229.1, 230, 230.4, 242.94, 273, 273.1, 273.2, 273.3, 273.4, DIG.1, DIG.2; 395/750.01 :IMAGE AVAILABLE:
- 2. 5,566,349, Oct. 15, 1996, Complementary concurrent cooperative multi-processing multi-tasking processing system using shared memories with a minimum of four complementary processors; Ray C. Trout, 395/840; 364/243, 245.5, 245.6, 245.7, 245.9, DIG.1; 395/475, 827, 841 :IMAGE AVAILABLE:
- 3. 5,550,980, Aug. 27, 1996, Networked facilities management system with optical coupling of local network devices; Gregory A. Pascucci, et al., 359/111; 364/228, 228.4, 230, 230.4, 238.3, 238.8, 240, 240.6, DIG.1, DIG.2; 395/200.53 :IMAGE AVAILABLE:
- 4. 5,522,044, May 28, 1996, Networked facilities management system; Gregory A. Pascucci, et al., 395/200.52; 364/221, 221.9, 222, 222.1, 228, 229, 240, 242.94, 242.95, 920.3, 921, 921.4, 940, 940.61, DIG.1, DIG.2; 395/200.59, 200.73 :IMAGE AVAILABLE:
- 5. 5,511,188, Apr. 23, 1996, Networked facilities management system with time stamp comparison for data base updates; Gregory A. Pascucci, et al., 395/619; 364/282.1, DIG.1, DIG.2; 395/615 :IMAGE AVAILABLE:
- 6. 5,504,897, Apr. 2, 1996, Method and apparatus for processing electronic mail in parallel; Stevens Gans, et al., 395/615; 364/281.3, 284.3, DIG.1; 395/672 :IMAGE AVAILABLE:
- 7. 5,463,735, Oct. 31, 1995, Method of downloading information stored in an arching device to destination network controller through intermediate network controllers in accordance with routing information; Gregory A. Pascucci, et al., 395/200.52; 364/131, 221.7, 239.5, 242.96, 949.91, 975.1, DIG.1, DIG.2; 370/351; 395/200.67, 200.73, 284 :IMAGE AVAILABLE:
- 8. 5,444,851, Aug. 22, 1995, Method of accessing configured nodes in a facilities management system with a non-configured device; Karen L. Woest, 395/200.52; 364/221, 222.2, 242.94, 242.95, 927.92, 927.96, DIG.1, DIG.2; 395/200.38, 200.58, 200.72 :IMAGE AVAILABLE:
- 9. 5,384,697, Jan. 24, 1995, Networked facilities management system with balanced differential analog control outputs; Gregory A. Pascucci, 364/139 :IMAGE AVAILABLE:

## > d his

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(FILE 'USPAT' ENTERED AT 10:40:02 ON 16 OCT 1997)
            662 S DATABASE MANAGEMENT SYSTEM OR DBMS
L1
           1346 S OBJECT-ORIENTED?
L2
          82807 S DUPLICAT? OR REPLICAT?
L3
        1428625 S NODE# OR OBJECT# OR SCHEMA#
L4
          25179 S MAPP?
L5
            111 S L1 AND L2
L6
             53 S L6(P)L3(P)L4
ь7
          52004 S NODE#
r_8
            982 S SCHEMA#
Ь9
              0 S L1(P)L3(P)L5(P)L8
L10
              0 S L1(P)L3(P)L5(P)L8
L11
              0 S L1(P)L3(P)L5(P)L9
L12
L13
           1161 S L3(P)L8
             26 S L3(P)L9
L14
             47 S L1(P)L2
L15
              0 S L13(P)L15
L16
              0 S L14(P)L15
L17
              1 S L13 AND L15
L18
              6 S L14 AND L15
L19
              4 S L5(P)L8(P)L9
L20
              0 s s 395/614/CCLS
L21
            136 S 395/614/CCLS
L22
            164 s 395/611/CCLS
L23
            704 s 395/70?/CCLS
L24
            949 S 364/228.1/CCLS
L25
           1460 s 395/500/CCLS
L26
               6 S L13 AND L22
L27
               7 S L13 AND L23
L28
             10 S L13 AND L24
L29
             13 S L13 AND L25
L30
              18 S L13 AND L26
L31
               2 S L14 AND L22
L32
               2 S L14 AND L23
L33
               0 S L14 AND L24
L34
               1 S L14 AND L25
L35
               2 S L14 AND L26
L36
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# => d 127 1-6

- 1. 5,664,184, Sep. 2, 1997, Method and apparatus for implementing Q-trees; David E. Ferguson, et al., 395/614, 603 :IMAGE AVAILABLE:
- 2. 5,625,816, Apr. 29, 1997, Method and system for generating product performance history; Randy Burdick, et al., 395/614; 364/489, 571.02; 379/93.01, 112; 395/210, 228 :IMAGE AVAILABLE:
- 3. 5,548,726, Aug. 20, 1996, System for activating new service in client server network by reconfiguring the multilayer network protocol stack dynamically within the server node; Christopher E. Pettus, 395/200.51; 364/222.2, 284.4, 940.71, DIG.1, DIG.2; 395/200.33, 200.58, 200.6, 614 :IMAGE AVAILABLE:
- 4. 5,440,744, Aug. 8, 1995, Methods and apparatus for implementing server functions in a distributed heterogeneous environment; Neal F. Jacobson, et al., 395/200.33; 364/281.3, 282.1, 282.4, 284.4, DIG.1; 395/614 :IMAGE AVAILABLE:

- 5. 5,341,478, Aug. 23, 1994, Methods and apparatus for viding dynamic invocation of applications in a distributed heterogeneous environment; Robert L. Travis, Jr., et al., 395/200.33; 364/280, 281.3, 282.1, 284.4, DIG.1; 395/200.49, 500, 610, 614 :IMAGE AVAILABLE:
- 6. 5,280,610, Jan. 18, 1994, Methods and apparatus for implementing data bases to provide object-oriented invocation of applications; Robert L. Travis, Jr., et al., 395/614; 364/254.7, 256.8, 282.1, 282.4, 283.1, 963.3, 974, DIG.1, DIG.2; 395/500, 610, 683 :IMAGE AVAILABLE:
- => d 128 1-8
- 7 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE ENTER ANSWER NUMBER OR RANGE (1):end
- => d 128 1
- 1. 5,659,739, Aug. 19, 1997, Skip list data structure enhancements; Clark E. Lubbers, et al., 395/613, **611**: IMAGE AVAILABLE:
- => d 128 2-8
- 7 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE

YOU HAVE RECEIVED THIS ERROR MESSAGE 2 CONSECUTIVE TIMES
The answer numbers requested are not in the answer set.
IF YOU REQUIRE FURTHER HELP, PLEASE CONTACT YOUR LOCAL HELP DESK
ENTER ANSWER NUMBER OR RANGE (1):2

- 2. 5,644,763, Jul. 1, 1997, Database system with improved methods for B-tree maintenance; Shaibal Roy, 395/612, **611**: IMAGE AVAILABLE:
- => d 128 3-7
- 3. 5,632,031, May 20, 1997, Method and means for encoding storing and retrieving hierarchical data processing information for a computer system; T. Dora Velissaropoulos, et al., 395/611; 364/282.3, DIG.1; 395/615 :IMAGE AVAILABLE:
- 4. 5,454,101, Sep. 26, 1995, Data storage system with set lists which contain elements associated with parents for defining a logical hierarchy and general record pointers identifying specific data sets; Duncan C. Mackay, et al., 395/603; 364/282.3, 282.4, 283.1, 283.2, 962.1, 963.5, 974.7, DIG.1, DIG.2; 395/611, 616 :IMAGE AVAILABLE:
- 5. 5,418,947, May 23, 1995, Locating information in an unsorted database utilizing a B-tree; Gordon K. Hsu, et al., 395/601; 364/222.81, 222.9, DIG.1; 395/611: IMAGE AVAILABLE:
- 6. 5,257,365, Oct. 26, 1993, Database system with multi-dimensional summary search tree nodes for reducing the necessity to access records; Frederick A. Powers, et al., 395/611; 364/251.6, 252.3, 963.3, DIG.1, DIG.2; 395/601 :IMAGE AVAILABLE:
- 7. 4,631,673, Dec. 23, 1986, Method for refreshing multicolumn tables in a relational data base using minimal information; Laura M. Haas, et al., 395/611; 364/222.82, 283.4, 962.1, 974.4, DIG.1; 395/610, 617 :IMAGE AVAILABLE:
- => d 129 1-10
- 1. 5,610,828, Mar. 11, 1997, Graphical system for modelling a process
  and associated method; Jeffrey L. Kodosky, et al., 364/489, 221.2, 221.9,
  225.6, 916, 916.2, 917.3, DIG.1, DIG.2; 395/118, 131, 348, 500, 701
  :IMAGE AVAILABLE:

- 2. 5,497,500, Mar. 5, Method and apparatus for more efficient function synchronization in a data flow program; Steven W. Rogers, et al., 395/701; 364/281.3, 286, 286.3, DIG.1; 395/348 :IMAGE AVAILABLE:
- 3. 5,485,612, Jan. 16, 1996, Method and apparatus for assigning processors in parallel computer system; Hiroshi Ota, et al., 395/670; 364/231.9, 931.41, DIG.1, DIG.2; **395/706**, **707**: IMAGE AVAILABLE:
- 4. 5,475,842, Dec. 12, 1995, Method of compilation optimization using an N-dimensional template for relocated and replicated alignment of arrays in data-parallel programs for reduced data communication during execution; John R. Gilbert, et al., 395/706; 364/232.22, 280.4, 280.5, 284, 284.3, DIG.1; 395/708 :IMAGE AVAILABLE:
- 5. 5,450,313, Sep. 12, 1995, Generating local addresses and communication sets for data-parallel programs; John R. Gilbert, et al., 395/709, 200.46, 412, 497.01 :IMAGE AVAILABLE:
- 6. 5,442,790, Aug. 15, 1995, Optimizing compiler for computers; Daniel M. Nosenchuck, **395/707**; 364/264.3, 280.4, 280.5, DIG.1; **395/709** :IMAGE AVAILABLE:
- 7. 5,325,530, Jun. 28, 1994, Controller for sequential programming tools executed in a parallel computing environment; Richard L. Mohrmann, 395/704; 364/267.91, 281.4, DIG.1; 395/183.11, 183.14, 672 :IMAGE AVAILABLE:
- 8. 5,276,880, Jan. 4, 1994, Method for parsing and representing multi-versioned computer programs, for simultaneous and synchronous processing of the plural parses; Michael A. Platoff, et al., 395/708; 364/280, 280.4, 280.5, DIG.1:IMAGE AVAILABLE:
- 9. 5,210,837, May 11, 1993, Methods and apparatus for transforming machine language program control into high-level language constructs by manipulating graphical program representations; Cheryl A. Wiecek, 395/702; 364/221, 221.7, 226.4, 227.4, 236.2, 246, 246.4, 248.1, 254, 254.6, 262, 262.1, 262.4, 262.9, 280, 280.4, 920.4, 938, 938.4, 946.2, 973, 977, DIG.1, DIG.2; 395/705 :IMAGE AVAILABLE:
- 10. 4,571,678, Feb. 18, 1986, Register allocation and spilling via graph coloring; Gregory J. Chaitin, 395/707; 364/280.4, 286, 973, DIG.1; 395/709 :IMAGE AVAILABLE:
- => d 130 1-13
- 1. 5,581,732, Dec. 3, 1996, Multiprocessor system with reflective memory data transfer device; James C. Dann, 395/475; **364/228.1**, 228.3, DIG.1:IMAGE AVAILABLE:
- 2. 5,561,784, Oct. 1, 1996, Interleaved memory access system having variable-sized segments logical address spaces and means for dividing/mapping physical address into higher and lower order addresses; Steve S. Chen, et al., 395/484; 364/228.1, 228.7, 228.8, 231.9, 232.21, 238.4, 243, 243.4, 243.41, 246, 246.3, 246.4, 259.2, 931.4, 931.51, 931.52, 964.2, 966.4, DIG.1, DIG.2 :IMAGE AVAILABLE:
- 3. 5,544,353, Aug. 6, 1996, Distributed processing object shared resource control apparatus and method; Ira R. Forman, et al., 395/608; **364/228.1**, 262.3, 281.6, 281.8, 282.1, 282.2, 963, 974, DIG.1, DIG.2; 395/726 :IMAGE AVAILABLE:
- 4. 5,255,369, Oct. 19, 1993, Multiprocessor system with reflective memory data transfer device; James C. Dann, 395/200.44; **364/228.1**, 228.3, 238.7, 246.7, 259.2, DIG.1; 395/200.59 :IMAGE AVAILABLE:

- 5. 5,212,789, May 18, Method and apparatus for up ing application databases used in a distributed transaction processing environment; Vito Rago, 395/608; 364/222.2, 222.3, 222.81, 222.82, 228.1, 228.3, 229, 234, 236.2, 237.2, 237.3, 240.8, 242.4, 242.94, 242.95, 242.96, 248.1, 262.4, 262.9, 268.3, 268.8, 281.3, 281.7, 282.1, 282.2, 286.4, 286.5, DIG.1; 395/610 :IMAGE AVAILABLE:
- 6. 5,197,130, Mar. 23, 1993, Cluster architecture for a highly parallel scalar/vector multiprocessor system; Steve S. Chen, et al., 395/800.03; 364/228, 228.1, 228.7, 228.8, 228.9, 229, 231.8, 231.9, 232.21, 235, 236.2, 237.2, 238, 239, 239.8, 240, 240.8, 241.9, 242, 242.6, 242.7, 242.93, 242.94, 242.96, 243, 243.4, 243.41, 243.42, 244, 244.3, 244.8, 246, 246.3, 246.4, 247, 247.8, 248.1, 251, 251.3, 259, 259.9, 261.3, 271, 923.5, 927.92, 927.94, 927.95, 931, 931.4, 931.51, 931.52, 933, 937.01, 939, 940, 940.61, 940.62, 948.34, 949, 957, 957.6, 964, 964.2, 964.22, 966.1, 966.4, 973, DIG.1, DIG.2; 395/474, 475, 800.04, 800.23, 860 :IMAGE AVAILABLE:
- 7. 5,072,373, Dec. 10, 1991, Real-time data processing system; James C. Dann, 395/200.31; **364/228.1**, 229, 229.2, 231.8, 232.3, 237.2, 237.3, 238.3, 238.7, 238.9, 240, 240.1, 240.2, 240.8, 241.8, 241.9, 242.4, 242.94, 242.96, 245.5, 245.7, 259, 259.2, 260, 260.1, 270.5, 284, 284.4, DIG.1; 395/200.44 :IMAGE AVAILABLE:
- 8. 4,991,079, Feb. 5, 1991, Real-time data processing system; James C. Dann, 395/200.31; **364/228.1**, 228.7, 228.9, 229, 229.1, 229.2, 230, 230.4, 240, 240.5, 242.4, 245.5, 245.7, 254, 254.5, 259, 259.2, 267, 267.2, DIG.1; 395/200.44 :IMAGE AVAILABLE:
- 9. 4,972,314, Nov. 20, 1990, Data flow signal processor method and apparatus; Thomas W. Getzinger, et al., 395/476; 364/221, 221.4, 228.1, 228.3, 228.6, 231.8, 231.9, 232.22, 237.2, 238, 238.4, 239, 239.8, 239.9, 240, 241, 241.9, 242.94, 242.96, 243, 243.3, 244, 244.3, 247, 247.8, 254, 254.3, 260, 260.1, 262.4, 262.8, 264, 265, 266.5, 268, 268.3, 270.5, 281, 281.3, 281.8, DIG.1; 395/672, 800.25 :IMAGE AVAILABLE:
- 10. 4,718,005, Jan. 5, 1988, Distributed control of alias name usage in networks; Barry A. Feigenbaum, et al., 395/200.52; 340/825.52; 364/228.1, 228.5, 240.8, 240.9, 242.94, 253, 253.1, 284, 284.4, 286, 286.4, 286.5, DIG.1; 370/257, 475; 395/200.54 :IMAGE AVAILABLE:
- 11. 4,644,461, Feb. 17, 1987, Dynamic activity-creating data-driven computer architecture; Glenn A. Jennings, 395/676; 364/131, 133, 228, 228.1, 228.3, 229, 229.2, 229.3, 229.41, 229.5, 230, 230.3, 230.5, 232.22, 232.3, 232.8, 238.1, 238.6, 238.7, 238.8, 238.9, 239, 239.4, 239.6, 241.9, 242.6, 242.92, 243, 243.1, 244, 244.3, 259, 259.5, 259.8, 259.9, 260, 260.1, 262.4, 262.8, 262.9, 270.5, 270.7, 270.9, 280, 280.2, 281, 281.3, 281.4, 281.5, 281.7, DIG.1; 395/200.81, 377, 800.18, 800.28 :IMAGE AVAILABLE:
- 12. 4,484,262, Nov. 20, 1984, Shared memory computer method and apparatus; Herbert W. Sullivan, et al., 395/421.06; 364/224, 224.21, 228.1, 228.3, 228.7, 230, 230.3, 231.4, 231.6, 231.9, 234, 236.2, 237, 237.2, 238.2, 238.4, 239, 239.7, 243, 243.4, 243.41, 244, 244.3, 244.7, 246, 246.1, 248, 248.1, 248.2, 248.5, 249, 249.1, 252, 281.3, DIG.1 :IMAGE AVAILABLE:
- 13. 3,568,157, Mar. 2, 1971, PROGRAM CONTROLLED DATA PROCESSING SYSTEM; Randall W. Downing, et al., 395/737; 364/222.2, 222.3, **228.1**, 228.4, 229, 229.1, 230, 230.3, 230.5, 231.4, 231.6, 236, 237, 241.2, 241.5, 242, 242.4, 243, 243.3, 246.6, 246.8, 249.8, 255, 255.1, 255.2, 259, 259.1, 259.7, 261.3, 261.5, 262.4, 263, 263.1, 265, 265.1, 265.3, 265.5, 265.6, 266.3, 266.5, 267, 267.2, 267.4, 267.7, 268, 268.1, 268.3, 268.4, 269, 271.5, DIG.1; 395/735 :IMAGE AVAILABLE:

- 1. 5,652,866, Jul. 29, 1997, Collaborative working method and system for a telephone to interface with a collaborative working application; Barry Keith Aldred, et al., 395/500; 375/222; 379/93.05 :IMAGE AVAILABLE:
- 2. 5,649,171, Jul. 15, 1997, On-line video editing system; Ian Craven, et al., 395/500; 364/DIG.1, DIG.2; 395/806 :IMAGE AVAILABLE:
- 3. 5,649,166, Jul. 15, 1997, Dominator selection method for reducing power consumption in a circuit; Alexander Saldanha, et al., 395/500; 364/488, 491, 578 :IMAGE AVAILABLE:
- 4. 5,627,999, May 6, 1997, Similarity-extraction force-oriented floor planner; Eric C. Cheng, et al., 395/500; 364/488, 490, 491 :IMAGE AVAILABLE:
- 5. 5,610,828, Mar. 11, 1997, Graphical system for modelling a process and associated method; Jeffrey L. Kodosky, et al., 364/489, 221.2, 221.9, 225.6, 916, 916.2, 917.3, DIG.1, DIG.2; 395/118, 131, 348, 500, 701: IMAGE AVAILABLE:
- 6. 5,581,489, Dec. 3, 1996, Model generator for constructing and method of generating a model of an object for finite element analysis; Steven K. Groothuis, et al., 364/578, DIG.1; 395/500 :IMAGE AVAILABLE:
- 7. 5,528,508, Jun. 18, 1996, System and method for verifying a hierarchical circuit design; Philip J. Russell, et al., 364/488, 490; 395/500 :IMAGE AVAILABLE:
- 8. 5,442,772, Aug. 15, 1995, Common breakpoint in virtual time logic simulation for parallel processors; Philip L. Childs, et al., 395/500; 364/269, 271.2, 271.3, 578, DIG.1 :IMAGE AVAILABLE:
- 9. 5,440,719, Aug. 8, 1995, Method simulating data traffic on network in accordance with a client/sewer paradigm; Charles F. Hanes, et al., 395/500; 364/264, 264.3, 284, 284.3, 284.4, DIG.1, DIG.2 : IMAGE AVAILABLE:
- 10. 5,341,478, Aug. 23, 1994, Methods and apparatus for providing dynamic invocation of applications in a distributed heterogeneous environment; Robert L. Travis, Jr., et al., 395/200.33; 364/280, 281.3, 282.1, 284.4, DIG.1; 395/200.49, 500, 610, 614 :IMAGE AVAILABLE:
- 11. 5,315,646, May 24, 1994, Systems and processes for providing multiple interfaces for telephone services; David L. Babson, III, et al., 379/201, 93.17; 395/356, 500, 967 :IMAGE AVAILABLE:
- 12. 5,303,383, Apr. 12, 1994, Multiprocessor computer system; Philip M. Neches, et al., **395/500**; 364/228, 229, 229.4, 238.1, 268, 268.9, DIG.1; 370/351 :IMAGE AVAILABLE:
- 13. 5,291,489, Mar. 1, 1994, Interprocessor switching network; James D. Morgan, et al., 370/401, 447, 449; 395/200.68, **500** :IMAGE AVAILABLE:
- 14. 5,280,610, Jan. 18, 1994, Methods and apparatus for implementing data bases to provide object-oriented invocation of applications; Robert L. Travis, Jr., et al., 395/614; 364/254.7, 256.8, 282.1, 282.4, 283.1, 963.3, 974, DIG.1, DIG.2; 395/500, 610, 683 :IMAGE AVAILABLE:
- 15. 5,276,877, Jan. 4, 1994, Dynamic computer system performance modeling interface; Karl S. Friedrich, et al., 395/675; 364/DIG.2; 395/500, 653: IMAGE AVAILABLE:

- 16. 5,257,363, Oct. 26, 1993, Computer-aided generation of programs modelling complex system using colored petri nets; Robert M. Shapiro, et al., 395/500; 364/188, 191, 976.5, DIG.2 :IMAGE AVAILABLE.
- 17. 5,239,663, Aug. 24, 1993, Self-adapting and multifunctional process and structure for the automated evaluation of logical or arithmetic expressions, particularly for extended database consultation; Pascal Faudemay, et al., 395/607; 340/146.2; 364/222.9, 225.4, 230.6, 232.7, 259.1, 259.2, 271.2, 929.2, 947.1, 947.2, 974.6, DIG.1, DIG.2; 395/500, 603: IMAGE AVAILABLE:
- 18. 5,119,465, Jun. 2, 1992, System for selectively converting plurality of source data structures through corresponding source intermediate structures, and target intermediate structures into selected target structure; Martin L. Jack, et al., 395/500; 364/232.3, 235, 237.2, 239, 274, 274.1, 274.8, 280, 280.2, 280.4, 282.1, 282.3, 282.4, 283.2, 286, 286.3, DIG.1 :IMAGE AVAILABLE:

## => d 133 1-2

- 1. 5,481,700, Jan. 2, 1996, Apparatus for design of a multilevel secure database management system based on a multilevel logic programming system; Bhavani M. Thuraisingham, 395/609; 364/274, 274.3, 282.1, DIG.1; 395/10, 611: IMAGE AVAILABLE:
- 2. 5,410,691, Apr. 25, 1995, Method and apparatus for providing a network configuration database; Bradley Taylor, **395/611**; 340/825.02; 364/DIG.1:IMAGE AVAILABLE:

#### => d 132 1-2

- 1. 5,542,078, Jul. 30, 1996, Object oriented data store integration environment for integration of object oriented databases and non-object oriented data facilities; Paul A. Martel, et al., 395/612, **614** :IMAGE AVAILABLE:
- 2. 5,291,583, Mar. 1, 1994, Automatic storage of persistent ASN.1 objects in a relational schema; Subodh Bapat, 395/500; 364/280.4, 283.2, 283.4, DIG.1; 395/614: IMAGE AVAILABLE:

## => d 135 1

1. 5,390,316, Feb. 14, 1995, Multicomputer complex having a distributed shared memory system for providing a single system view from multiple consoles; Lorraine Cramer, et al., 395/200.31; 364/228.1, 228.8, 228.9, 229.1, DIG.1; 395/200.34, 200.43, 200.44, 474 :IMAGE AVAILABLE:

# => d 136 1-2

- 1. 5,596,746, Jan. 21, 1997, Method for transforming relational data base schemas into object models using ideal table meta models; Hwa N. Shen, et al., 395/612; 364/282.1, 283.4, DIG.1; 395/500 :IMAGE AVAILABLE:
- 2. 5,291,583, Mar. 1, 1994, Automatic storage of persistent ASN.1 objects in a relational schema; Subodh Bapat, **395/500**; 364/280.4, 283.2, 283.4, DIG.1; 395/614 :IMAGE AVAILABLE:

82807 S DUPLICAT? OR REPLICAT? L1L252534 S NODE# OR OBJECT# AND SCHEMA# L3 217 S 395/610/CCLS L493 s 395/617/CCLS L5 1490 S OBJECT# (2A) TABLE# L6 266 S (REPLICAT? OR DUPLICAT?) AND OBJECT# AND (GROUP# OR TA BLE L7 0 S ((REPLICAT? OR DUPLICAT?) AND OBJECT# AND (GROUP# OR TAB LE# L83754 S (REPLICAT? OR DUPLICAT?) AND OBJECT# AND (GROUP# OR TABL E#) L9 158 S (REPLICAT? OR DUPLICAT?) AND OBJECT# AND (TABLE#)/TI L10 O S (REPLICAT? OR DUPLICAT?) (2A) OBJECT# (2A) TABLE#/TI L11 318 S L1(P)L2(P)L8 L12 6032 S L1(P)L2 L13 43 S L12 AND L3 L14 20 S L12 AND L4

#### => d 113 1-43

- 1. 5,664,109, Sep. 2, 1997, Method for extracting pre-defined data items from medical service records generated by health care providers; Gary Duane Johnson, et al., 705/2; 395/54, 602, 610, 791, 924; 705/3, 4:IMAGE AVAILABLE:
- 2. 5,659,727, Aug. 19, 1997, Computer program product and program storage device for encoding, storing, and retrieving hierarchical data processing information for a computer system; T. Dora Velissaropoulos, et al., 395/602; 364/282.3, DIG.1; 395/610: IMAGE AVAILABLE:
- 3. 5,640,556, Jun. 17, 1997, Synchronous/asynchronous client server access based upon database file record attribute; Hidetaka Tamura, 395/610, 200.49 :IMAGE AVAILABLE:
- 4. 5,634,053, May 27, 1997, Federated information management (FIM) system and method for providing data site filtering and translation for heterogeneous databases; William B. Noble, et al., 395/604, 610: IMAGE AVAILABLE:
- 5. 5,628,011, May 6, 1997, Network-based intelligent information-sourcing arrangement; Syed V. Ahamed, et al., 395/610, 10, 11, 52, 54, 76, 200.31, 200.79, 605 :IMAGE AVAILABLE:
- 6. 5,608,903, Mar. 4, 1997, Method and apparatus for moving subtrees in a distributed network directory; Ranjan Prasad, et al., 395/610, 187.01 :IMAGE AVAILABLE:
- 7. 5,606,693, Feb. 25, 1997, Distributed database management over a network; Kenneth Nilsen, et al., 395/610; 364/243.7, 268.3, 282.4, DIG.1 :IMAGE AVAILABLE:
- 8. 5,596,744, Jan. 21, 1997, Apparatus and method for providing users with transparent integrated access to heterogeneous database management systems; Son K. Dao, et al., 395/610; 364/282.1, 282.4, DIG.1 :IMAGE AVAILABLE:
- 9. 5,586,314, Dec. 17, 1996, Graphic information modeling and icon-based intermediate text language generation; Thomas L. Hill, et al., 395/604; 364/280.4, 282.1, 286, DIG.1; 395/610 :IMAGE AVAILABLE:

- 10. 5,581,757, Dec. 3, 364, Partially replicated database for a network of store-and-forward message systems; Gary Maxey, 395/610; 358/402, 407; 364/222.3, 282.1, 282.3, 974, 974.7, DIG.1, DIG.2; 379/88; 395/200.72 :IMAGE AVAILABLE:
- 11. 5,560,005, Sep. 24, 1996, Methods and systems for object-based relational distributed databases; Michael K. Hoover, et al., 395/610; 364/228, 229.5, 283.4, 284.4, DIG.1: IMAGE AVAILABLE:
- 12. 5,555,375, Sep. 10, 1996, Method and apparatus for network computer systems management group administration; Ram Sudama, et al., 395/200.56; 364/DIG.1; 395/610 :IMAGE AVAILABLE:
- 13. 5,519,855, May 21, 1996, Summary catalogs, Yuval Neeman, et al., 395/603; 364/DIG.1; 395/427, 610 :IMAGE AVAILABLE:
- 14. 5,506,984, Apr. 9, 1996, Method and system for data retrieval in a distributed system using linked location references on a plurality of nodes; James S. Miller, 395/610; 364/282.3, 282.4, DIG.1 :IMAGE AVAILABLE:
- ,15. 5,459,863, Oct. 17, 1995, Method of maintaining data integrity in a network database; Bradley Taylor, **395/610**; 364/962, 969.4, DIG.2; 395/619: IMAGE AVAILABLE:
- 16. 5,452,450, Sep. 19, 1995, System of global update for time/language heterogeneous databases using a relational reference database and both request and database identifier files; Jean-Michel Delory, 395/610; 364/282.1, 282.4, 283.4, 285, DIG.1; 395/617 :IMAGE AVAILABLE:
- 17. 5,446,886, Aug. 29, 1995, System from optimizing query processing of multi-attribute distributed relations using local relation tuple numbers to choose semijoins; Hong Li, 395/602; 364/282.1, 282.4, 283.4, DIG.1; 395/610 :IMAGE AVAILABLE:
- 18. 5,446,880, Aug. 29, 1995, Database communication system that provides automatic format translation and transmission of records when the owner identified for the record is changed; Timothy E. Balgeman, et al., 395/609; 364/241.7, 242.5, 284.3, DIG.1; 395/610, 617:IMAGE AVAILABLE:
- 19. 5,440,727, Aug. 8, 1995, Asynchronous replica management in shared nothing architectures; Anupam K. Bhide, et al., 395/444, 182.06, 468, 486, 610, 618 :IMAGE AVAILABLE:
- 20. 5,412,806, May 2, 1995, Calibration of logical cost formulae for queries in a heterogeneous DBMS using synthetic database; Weimin Du, et al., 395/602, **610** :IMAGE AVAILABLE:
- 21. 5,408,665, Apr. 18, 1995, System and methods for linking compiled code with extended dictionary support; Judith A. Fitzgerald, 395/710; 364/262.5, 280.4, DIG.1; 395/610 :IMAGE AVAILABLE:
- 22. 5,408,619, Apr. 18, 1995, Naming service database updating technique; David R. Oran, **395/610**; 364/260, 260.1, 282.4, 284.4, DIG.1; 395/280, 616 :IMAGE AVAILABLE:
- 23. 5,394,526, Feb. 28, 1995, Data server for transferring selected blocks of remote file to a distributed computer network involving only single data transfer operation; Donald D. Crouse, et al., 395/200.49; 364/225.4, 265.3, 284.4, DIG.1; 395/200.42, 200.46, 200.64, 610 :IMAGE AVAILABLE:
- 24. 5,357,630, Oct. 18, 1994, Name resolution method for a distributed

- 25. 5,345,586, Sep. 6, 1994, Method and system for manipulation of distributed heterogeneous data in a data processing system; Annette M. Hamala, et al., 395/610; 364/280.6, 282.4, DIG.1; 395/616:IMAGE AVAILABLE:
- 26. 5,341,478, Aug. 23, 1994, Methods and apparatus for providing dynamic invocation of applications in a distributed heterogeneous environment; Robert L. Travis, Jr., et al., 395/200.33; 364/280, 281.3, 282.1, 284.4, DIG.1; 395/200.49, 500, 610, 614 :IMAGE AVAILABLE:
- 27. 5,287,498, Feb. 15, 1994, Message transmitting system wherein recipient site is determined using information concerning the relationship between the sender and recipient sites; Roberto Perelman, et al., 395/610; 364/260, 282.4, 284, 284.3, DIG.1; 379/89, 207, 220; 395/200.75, 412, 616 :IMAGE AVAILABLE:
- 28. 5,280,610, Jan. 18, 1994, Methods and apparatus for implementing data bases to provide object-oriented invocation of applications; Robert L. Travis, Jr., et al., 395/614; 364/254.7, 256.8, 282.1, 282.4, 283.1, 963.3, 974, DIG.1, DIG.2; 395/500, 610, 683 : IMAGE AVAILABLE:
- 29. 5,274,806, Dec. 28, 1993, Hierarchical data encyclopedia; Thomas L. Hill, **395/610**; 364/282.1, 283.2, DIG.1; 395/611, 620 :IMAGE AVAILABLE:
- 30. 5,247,664, Sep. 21, 1993, Fault-tolerant distributed database system and method for the management of correctable subtransaction faults by the global transaction source **node**; Glenn R. Thompson, et al., **395/610**; 364/282.1, 282.4, 284, 284.3, 285.3, 286, DIG.1; 395/181, 182.13, 185.1 :IMAGE AVAILABLE:
- 31. 5,212,789, May 18, 1993, Method and apparatus for updating application databases used in a distributed transaction processing environment; Vito Rago, 395/608; 364/222.2, 222.3, 222.81, 222.82, 228.1, 228.3, 229, 234, 236.2, 237.2, 237.3, 240.8, 242.4, 242.94, 242.95, 242.96, 248.1, 262.4, 262.9, 268.3, 268.8, 281.3, 281.7, 282.1, 282.2, 286.4, 286.5, DIG.1; 395/610 :IMAGE AVAILABLE:
- 32. 5,175,852, Dec. 29, 1992, Distributed file access structure lock; Donavon W. Johnson, et al., 395/608; 364/246.8, 281.5, 931, 931.4, 931.43, 940, 940.1, 940.62, 940.92, 942.7, 946.2, 946.9, 948.3, 948.32, 950, 950.3, 952, 952.1, 957, 957.1, 957.3, 960, 960.5, 961.2, 963, 963.3, 964, 964.2, 964.7, 966.5, 969, 969.2, 974, 974.7, 975.2, 975.4, 976, DIG.2; 395/610 :IMAGE AVAILABLE:
- 33. 5,142,674, Aug. 25, 1992, Interchange object data base index which eliminates the need for private copies of interchange documents files by a plurality of application programs; Barbara A. Barker, et al., 395/610; 364/242.3, 242.94, 282.1, 282.3, 282.4, 283.2, DIG.1; 395/613: IMAGE AVAILABLE:
- 34. 5,117,351, May 26, 1992, Object identifier generator for distributed computer system; Steven Miller, **395/610**; 364/222.2, 222.3, 235, 237.6, 241.9, 242.94, 247, 264, 264.5, 271.5, 271.9, 280, 280.2, 280.3, 282.1, 282.4, DIG.1; 395/616 :IMAGE AVAILABLE:
- 35. 5,089,954, Feb. 18, 1992, Method for handling conversational transactions in a distributed processing environment; Vito Rago, 395/615; 340/825.03; 364/228, 229, 229.1, 229.2, 229.5, 230, 230.3, 230.5, 238, 240.8, 241.8, 242.5, 242.94, 243, 245.5, 245.6, 245.7, 252.4, 252.6, 255.1, 255.2, 282.1, 282.4, 284, 284.1, 284.2, 284.3, 284.4, DIG.1; 379/229, 269; 395/610 :IMAGE AVAILABLE:

- 36. 5,001,628, Mar. 19, 91, Single system image unique defining an environment for each user in a data processing system; Donavon W. Johnson, et al., 395/610; 364/282.1, 282.3, 282.4, 283.1, DIG.1; 395/611, 616, 617 :IMAGE AVAILABLE:
- 37. 4,914,571, Apr. 3, 1990, Locating resources in computer networks; Alan E. Baratz, et al., **395/610**; 364/242.5, 242.94, 242.96, 245, 245.2, 282.1, 282.3, 282.4, 283.3, 284, 284.3, 284.4, DIG.1; 395/837:IMAGE AVAILABLE:
- 38. 4,881,166, Nov. 14, 1989, Method for consistent multidatabase transaction processing; Glenn R. Thompson, et al., 395/608; 364/242.94, 263, 268.1, 280, 280.6, 281.3, 281.4, 282.1, 282.2, 282.4, 283.2, 283.4, DIG.1; 395/610, 616 :IMAGE AVAILABLE:
- 39. 4,831,582, May 16, 1989, Database access machine for factory automation network; William L. Miller, et al., 395/615; 364/134, 138, 917.5, 917.6, 920, 921, 921.4, 921.7, 927.2, 927.5, 927.61, 929.4, 929.5, 934, 934.1, 935, 935.2, 935.4, 935.41, 937.01, 940, 940.1, 940.61, 940.62, 940.9, 941, 941.91, 942.3, 942.4, 942.7, 943.9, 943.91, 944, 944.2, 944.5, 944.9, 949, 949.2, 949.3, 949.4, 950, 950.4, 952, 952.1, 955, 955.1, 955.5, 957, 957.1, 957.6, 965, 965.76, 969, 969.2, 973, 974, 974.5, 975, 975.1, 975.2, 976, DIG.2; 395/610, 612 :IMAGE AVAILABLE:
- 40. 4,825,354, Apr. 25, 1989, Method of file access in a distributed processing computer network; Rakesh Agrawal, et al., 395/610; 364/230.6, 236.2, 242.94, 242.96, 256.8, 264, 264.6, 271, 271.3, 271.5, 280, 280.4, 281.3, 281.7, 281.8, 282.1, 282.3, 282.4, 283.1, 283.2, 286, 286.1, 286.4, 286.5, DIG.1; 395/612 :IMAGE AVAILABLE:
- 41. 4,769,772, Sep. 6, 1988, Automated query optimization method using both global and parallel local optimizations for materialization access planning for distributed databases; Patricia A. Dwyer, 395/602; 364/974.6; 395/610 :IMAGE AVAILABLE:
- 42. 4,635,189, Jan. 6, 1987, Real-time distributed data-base management system; Burton Kendall, **395/610**; 364/221, 221.7, 221.9, 222.81, 222.82, 228.3, 230, 230.5, 242.1, 242.4, 244, 244.3, 245.5, 246, 246.1, 255.1, 255.8, 256.8, 260, 260.1, 261, 261.2, 264, 264.5, 267, 267.2, 268, 268.3, 268.5, 268.8, 271.6, 271.8, 271.9, 282.1, 282.4, 284, DIG.1; 395/421.11, 617 :IMAGE AVAILABLE:
- 43. 4,631,673, Dec. 23, 1986, Method for refreshing multicolumn tables in a relational data base using minimal information; Laura M. Haas, et al., 395/611; 364/222.82, 283.4, 962.1, 974.4, DIG.1; 395/610, 617: IMAGE AVAILABLE:

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- 1. 5,652,882, Jul. 29, 1997, Data processing system and method for detecting mandatory relations violation in a relational database; Karol Doktor, 395/617, 614: IMAGE AVAILABLE:
- 2. 5,634,056, May 27, 1997, Run time dependency management facility for controlling change propagation utilizing relationship graph; Andrea Casotto, 395/619, 617: IMAGE AVAILABLE:
- 3. 5,619,713, Apr. 8, 1997, Apparatus for realigning database fields through the use of a crosspoint switch; Richard I. Baum, et al., 395/613; 364/239.3, 282.1, DIG.1; 395/617: IMAGE AVAILABLE:
- 4. 5,608,898, Mar. 4, 1997, Development system with methods for maintaining data integrity of information stored as a data record in a database with a copy of the information displayed on a screen device;

- 5.) 5,551,027, Aug. 27, 1996, Multi-tiered indexing method for partitioned data; David M. Choy, et al., 395/617; 364/246.3, 246.8, 247.5, 255.2, DIG.1; 395/416, 421.06, 456, 480, 497.04 :IMAGE AVAILABLE:
  - 6. 5,475,833, Dec. 12, 1995, Database system for facilitating comparison of related information stored in a distributed resource; Norman J. Dauerer, et al., 395/617; 364/226.3, 282.4, DIG.1 :IMAGE AVAILABLE:
  - 7. 5,471,629, Nov. 28, 1995, Method of monitoring changes in an object-oriented database with tuned monitors; Tore J. M. Risch, 395/617; 364/251.7, 261, 276, 282.1, DIG.1; 395/184.01, 614 :IMAGE AVAILABLE:
  - 8. 5,452,450, Sep. 19, 1995, System of global update for time/language heterogeneous databases using a relational reference database and both request and database identifier files; Jean-Michel Delory, 395/610; 364/282.1, 282.4, 283.4, 285, DIG.1; 395/617: IMAGE AVAILABLE:
  - 9. 5,446,880, Aug. 29, 1995, Database communication system that provides automatic format translation and transmission of records when the owner identified for the record is changed; Timothy E. Balgeman, et al., 395/609; 364/241.7, 242.5, 284.3, DIG.1; 395/610, 617:IMAGE AVAILABLE:
  - 10. 5,414,840, May 9, 1995, Method and system for decreasing recovery time for failed atomic transactions by keeping copies of altered control structures in main memory; T. K. Rengarajan, et al., 395/617; 364/281.3, 281.4, 281.7, 281.9, DIG.1; 395/182.13 :IMAGE AVAILABLE:
  - 11. 5,388,258, Feb. 7, 1995, Software structure for telecommunication switching systems; G. Hakan Larsson, et al., 395/615; 364/275.2, 280.6, DIG.1; 395/617: IMAGE AVAILABLE:
  - 12. 5,386,559, Jan. 31, 1995, Variant domains and variant maps in a versioned database management system; Neal R. Eisenberg, et al., 395/617; 364/282.1, 282.3, 283.1, DIG.1 :IMAGE AVAILABLE:
  - 13. 5,276,871, Jan. 4, 1994, Method of file shadowing among peer systems; David I. Howarth, **395/617**; 364/222.2, 222.3, 222.81, 222.82, 222.9, 229, 230, 230.4, 240.9, 242.4, 242.94, 242.95, 242.96, 245.5, 246, 264, 264.6, 270.5, 281.3, 284, 284.3, 284.4, 285, DIG.1 :IMAGE AVAILABLE:
  - 14. 5,261,094, Nov. 9, 1993, Asynchronous **replication** of data changes by distributed update requests; Rhonda S. Everson, et al., **395/617**; 364/282.1, 282.4, 283.4, 284.3, 284.4, DIG.1 :IMAGE AVAILABLE:
  - 15. 5,136,707, Aug. 4, 1992, Reliable database administration arrangement; Frederick P. Block, et al., **395/617**; 364/222.2, 222.3, 222.81, 222.82, 236.2, 243.41, 243.5, 248.1, 282.4, 285, DIG.1; 395/448:IMAGE AVAILABLE:
  - 16. 5,001,628, Mar. 19, 1991, Single system image uniquely defining an environment for each user in a data processing system; Donavon W. Johnson, et al., 395/610; 364/282.1, 282.3, 282.4, 283.1, DIG.1; 395/611, 616, 617 :IMAGE AVAILABLE:
  - 17. 4,714,995, Dec. 22, 1987, Computer integration system; Anthony T. Materna, et al., 395/617; 364/DIG.1 :IMAGE AVAILABLE:
  - 18. 4,635,189, Jan. 6, 1987, Real-time distributed data-base management system; Burton Kendall, 395/610; 364/221, 221.7, 221.9, 222.81, 222.82,

- 228.3, 230, 230.5, 242.1, 242.4, 244, 244.3, 245.5, 246, 246.1, 255.1, 255.8, 256.8, 260, 260.1 61, 261.2, 264, 264.5, 267, 267, 268, 268.3, 268.5, 268.8, 271.6, 271.6, 271.9, 282.1, 282.4, 284, DIG.1; 395/421.11, 617 :IMAGE AVAILABLE:
- 19. 4,631,673, Dec. 23, 1986, Method for refreshing multicolumn tables in a relational data base using minimal information; Laura M. Haas, et al., 395/611; 364/222.82, 283.4, 962.1, 974.4, DIG.1; 395/610, 617: IMAGE AVAILABLE:
- 20. 4,432,057, Feb. 14, 1984, Method for the dynamic **replication** of data under distributed system control to control utilization of resources in a multiprocessing, distributed data base system; Thomas P. Daniell, et al., 395/608; 364/221, 222.81, 222.82, 225, 227.3, 230, 231.4, 231.5, 231.6, 238.3, 271, 271.2, 282.1, 282.4, 283.3, 284, 935.41, 940.64, 974.7, DIG.1, DIG.2; **395/617** :IMAGE AVAILABLE: